BookletChartTM

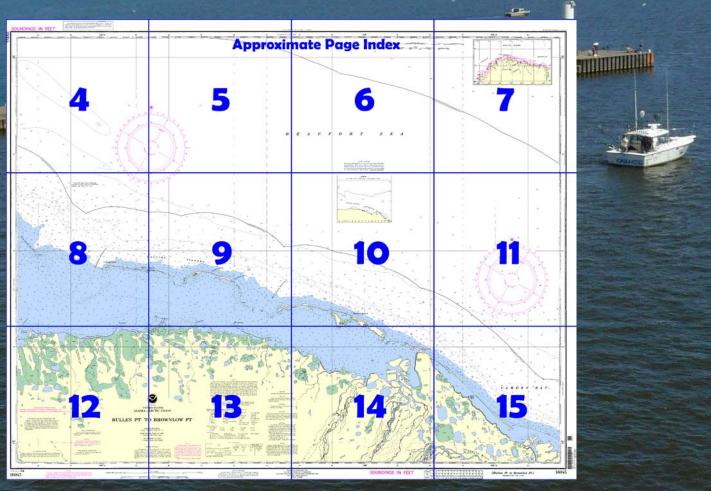




A reduced-scale NOAA nautical chart for small boaters When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



Published by the National Oceanic and Atmospheric Administration National Ocean Service Office of Coast Survey

<u>www.NauticalCharts.NOAA.gov</u> 888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart[™]?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=160 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=160 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=160 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=160 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=160 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=160 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=160 <a href="https://www.nauticalcharts.noaa.gov/nsd/searchby



(Selected Excerpts from Coast Pilot)
Challenge Entrance is between Belvedere
Island and Challenge Island, 6 miles to the
SE. The W side of the opening and the area
immediately S of Belvedere Island are
shallow and dotted with tiny islets and bare
shoals. The best water is 0.8 mile W of
Challenge Island where vessels drawing 10
feet or less can enter with safety.

Challenge Island, the westernmost of the **Maguire Islands**, is a strip of sand about 0.5 mile long and 3 feet high. **Alaska Island**,

that begins 0.2 mile E of Challenge Island and continues 3 miles farther E, is a very narrow sand and gravel formation; the easternmost third has

been cut through in several places and is a series of sandbars, shoals, and islets. There is no channel between Challenge and Alaska Islands. **Duchess Island**, 1 mile E of Alaska Island, is 1 mile long and 5 feet high. There is a narrow channel between Duchess and Alaska Islands but it is not recommended.

North Star Island, 0.2 mile SE of Duchess Island and easternmost of the four principal Maguires, is another narrow sand barrier about 1 mile long and has extensive shoals on the S and SE sides. There are narrow channels at both ends of the island but they are shallow and subject to constant change.

Mary Sachs Entrance, between North Star Island and Flaxman Island, has extensive shoals on both E and W sides. There is a 0.7-mile-wide passage with depths of 10 feet about midway between the two islands. Flaxman Island, which begins 2 miles ESE of North Star Island and continues 6 miles to within 2 miles of mainland Brownlow Point, is the largest barrier island between the Return Islands and the point. The W part of the island is mostly sand and gravel; the E part has tundra bluffs up to 20 feet in height and numerous small ponds, but freshwater is not available in any substantial quantity.

Passage has been made between Flaxman Island and Brownlow Point by staying close to the E end of the island until well into the lagoon; the channel has depths of 8 feet which shoal to 4 feet in the lagoon. The shoals that stretch from Brownlow Point to the E side of the narrow channel usually are marked by breakers or ice.

The mainland between Bullen Point and Brownlow Point has numerous other points, sandspits, and bluffs. The W branch of Canning River empties into the lagoon SW of Brownlow Point; the river delta forms extensive shoals in the E part of the lagoon.

Brownlow Point (70°09.8'N., 145°51.0'W.), 20 miles E of Bullen Point, is the most N feature of **Canning River** delta; the tundra point has elevations up to 25 feet. A sand and gravel bar, partly bare at high water, extends from Brownlow Point SE past Canning River E branch to within 2 miles of Konganevik Point. (See chart 16044.)

From Brownlow Point to Canning River E branch, the lagoon between the delta and the barrier bar is about 0.5 mile wide and has depths of 2 to 3 feet. The discharge from the river discolors the sea water for many miles. SE of the river's E branch is a lagoon that provides excellent small-craft anchorage in depths of 8 to 10 feet; the best approach from seaward is around the SE end of the barrier bar at a distance of 0.3 mile. A covered ridge that extends halfway from Konganevik Point to the bar protects the lagoon from NE wind-driven ice. The lagoon was ice free in mid-August 1976.

U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Juneau

Commander 17th CG District Juneau, Alaska

(907) 463-2000

Mercator Projection Scale 1:50.615 at Lat. 70° 15

North American Datum of 1983 (World Geodetic System 1984)

SOUNDINGS IN FEET AT MEAN LOWER LOW WATER

HEIGHTS

Heights in feet above Mean High Water

Depths may vary as much as 6 feet due to iceberg groundings.

CAUTION

Only marine radiobeacons have been cali brated for surface use. Limitations on the use of certain other radio signals as aids to marie navigation can be found in the U.S. Coast Guard Light List and National imagery and Mapping Agency Publication 117.
Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caultion. Station positions are shown thus: brated for surface use. Limitations on the use

NOTE A
Navigation regulations are published in
Chapter 2, U.S. Coast Pilot 9. Additions or
revisions to Chapter 2 are published in the
Notice to Mariners. Information concerning
the regulations may be obtained at the Office
of the Commander, 17th Coast Guard District
in Juneau, Alaska, or at the Office of the bistrict
Engineer, Corps of Engineers in Anchorage,
Alaska

Refer to charted regulation section numbers

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

Mariners are advised that in the shallow waters of the Beaufort Sea, water levels are strongly influenced by meteorological conditions. Strong offshore winds can produce water depths up to 0.8 meters (2.6 feet) less than those shown on this chart.

RACON

Radar Transponder Beacons, or RACONS, are activated by radars operating on the X-Band, frequencies 9300 to 9450 MHz and, when activated, will emit an 1930/0 to 9450 km/2 and, when activated, with eith at international morse code character which will be visible on the radar screen that activated the RACON. The effective range of the RACONS will be from 11 to 27 miles. The RACONS will be maintained seasonally from 1 July to 15 September.

SUBSISTENCE WHALING IN THE BEAUFORT SEA

Mariners should be aware that Alaskan Natives engage in subsistence whaling in the Beaufort Sea from August 15 to October 31. Vessel operators are requested to contact the Alaska Eskimo Whaling Commission at (907) 852-2392, or aewcdir@barrow.com prior to entering this area for infor-mation about the location and avoidance of traditional Native hunting parties.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North The horizontal reference datum of this chart is North American Datum of 1983. Geographic positions on North American Datum of 1927 (NAD 27) must be corrected an average of 0.771* southward and 10.453* westward to agree with this chart. For charting purposes, NAD 83 is considered equivalent to the World Geodetic System of 1984 (WGS 84)

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

Table of Selected Chart Notes

FOR THIS CHART, a listing of NOTICE TO MARINERS corrections subsequent to the date shown in the lower left hand corner is available from the Cheft, Marine Chart Division (NCSS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toil free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

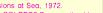
AUTHORITIES

Hydrography (from surveys of 1949 - 50) and topography by the National Ocean Service, Coast Survey with additional data from the State of Alaska, Geological Survey, and U.S. Coast Guard.

NOTE X

The 12 nautical mile territorial sea was established by Presidential Proclamation The 12 nautical mile territorial sea was established by Presidential Proclamation 5928, December, 27 1988, and is also the outer limit of the U.S. contiguous zone for the application of domestic law. The 3 nautical mile line, previously identified as the outer limit of the territorial sea, is retained because the proclamation states that it does not alter existing State or Federal law. The 9 nautical mile natural resources boundary off Texas, the Gulf coast of Florida, and Puerto Rico, and the 3 nautical mile line elsewhere remain the inner boundary of the Federal fisheries jurisdiction and limit of states' jurisdiction under the Submerged Lands Act (P.L. 83-31; 67 Stat. 29. March 22, 1953). These maritime limits are subject to modification, as represented on future charts. The lines shown on the most recent chart addition take prepresence. recent chart edition take precedence.

COLREGS, 80.1705 (see note A) International Regulations for Preventing Collisions at Sea, 1972.



The entire area of this chart falls seaward of the COLREGS Demarcation Line.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)
Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical G green R TR radio tower Rot rotating IQ interrupted quick Al alternating N nun OBSC obscured s seconds SEC sector B black Bn beacon Iso isophase LT HO lighthouse Oc occulting C can M nautical mile m minutes Or orange St M statute miles DIA diaphone Q quick R red VQ very quick MICRO TR microwave tower Mkr marker FI flashing Ra Ref radar reflector WHIS whistle R Bn radiobeacon Co coral gy gray h hard M mud Bids boulders Oys cysters Rk rock bk broken Cy clay G gravel Grs grass S sand sy sticky

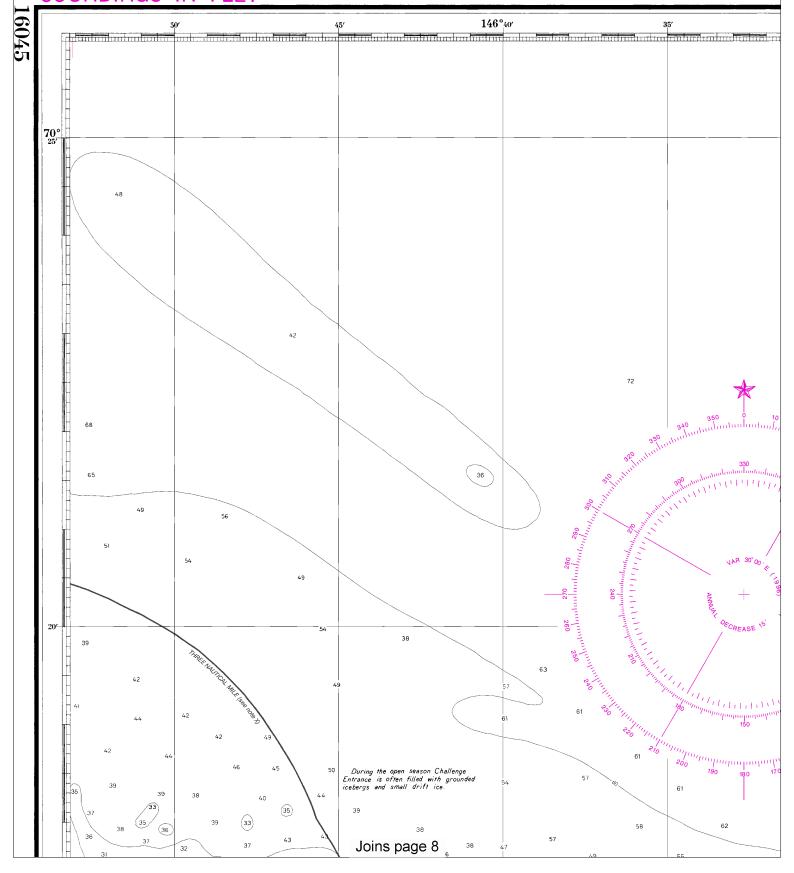
AUTH authorized Obstn obstruction PD position doubtful Subm submerged ED existence doubtful PA position approximate Rep reported

.21, Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

| | TIDAL I | INFORMATION | | | |
|----------------------|--|--|--------------------|--------------------|-------------------------|
| Place | | Height referred to datum of soundings (MLLW) | | | |
| Name | (Lat/Long) | Mean Higher High Water | Mean High Water | Mean Tide Level | Mean Lower Low Water |
| NOTE: Tides: The per | (70°11'N/146°00'W) iodic tide has a mean if about one-half foot. | feet 0.7 | feet 0.6 | feet 0.3 | feet 0.0 |

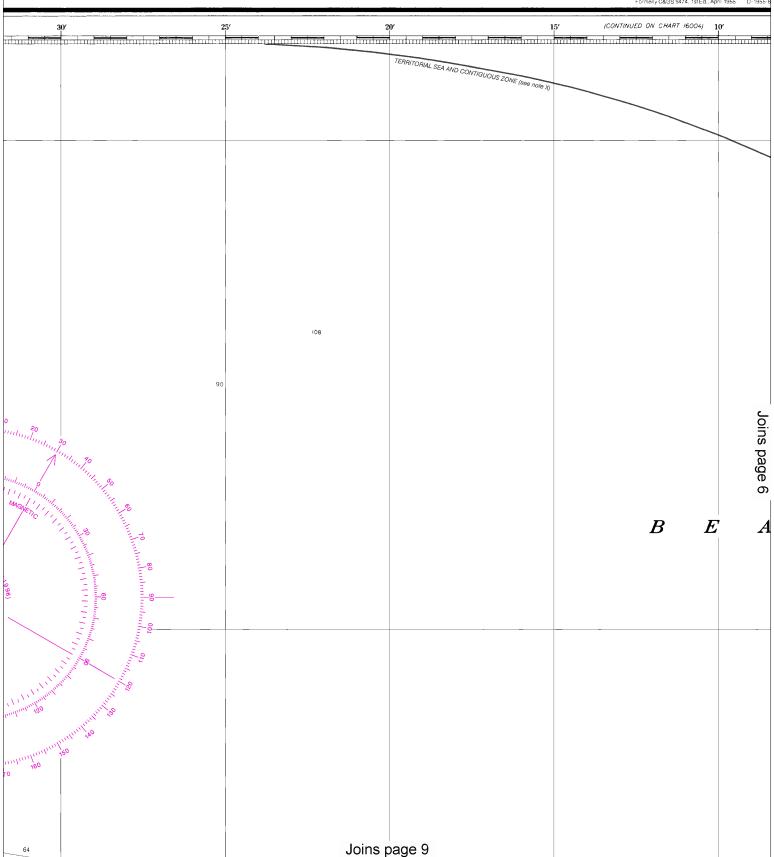
SOUNDINGS IN FEET

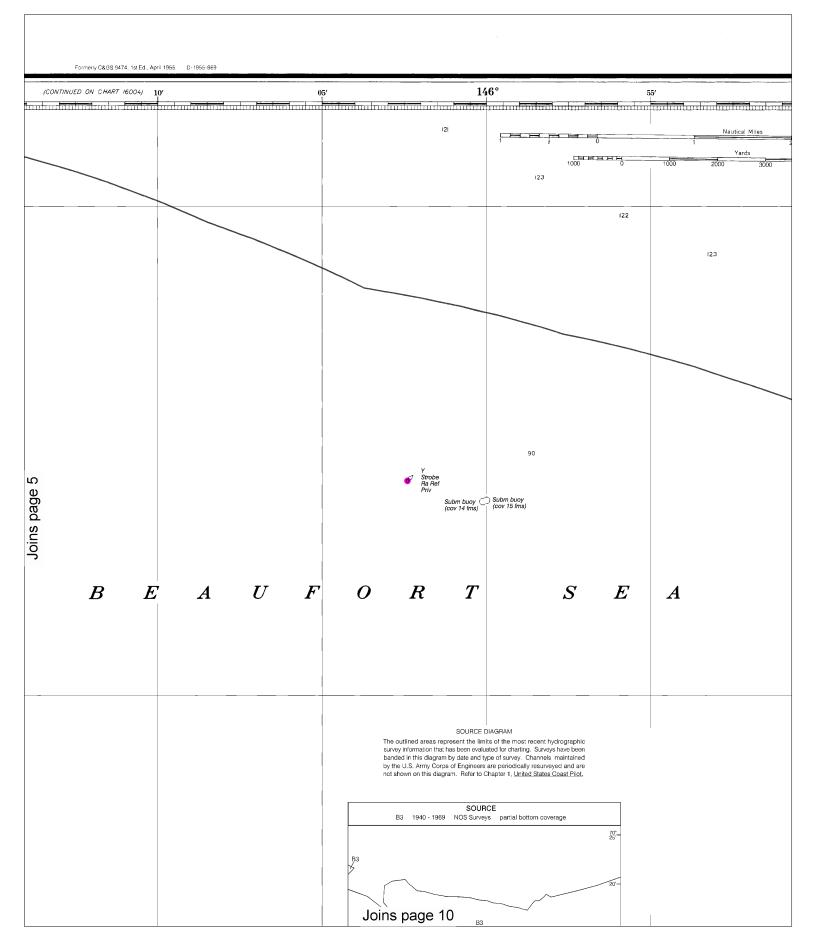
This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.



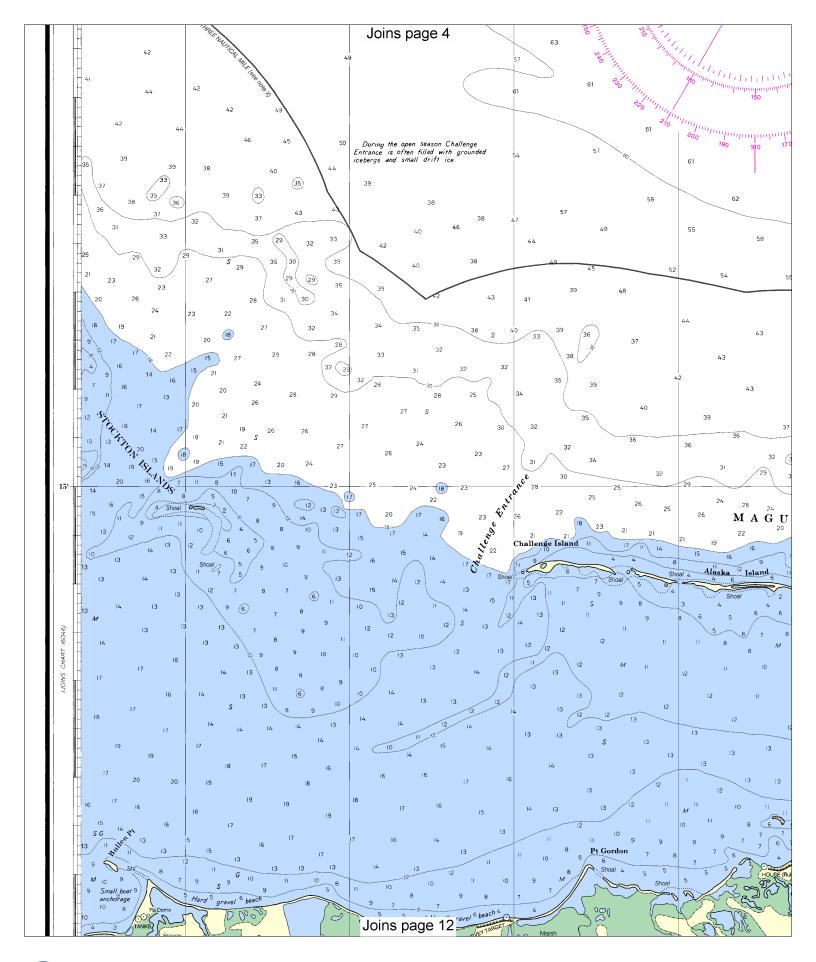


ormerly C&GS 9474 1st Ed. April 1955 D-19

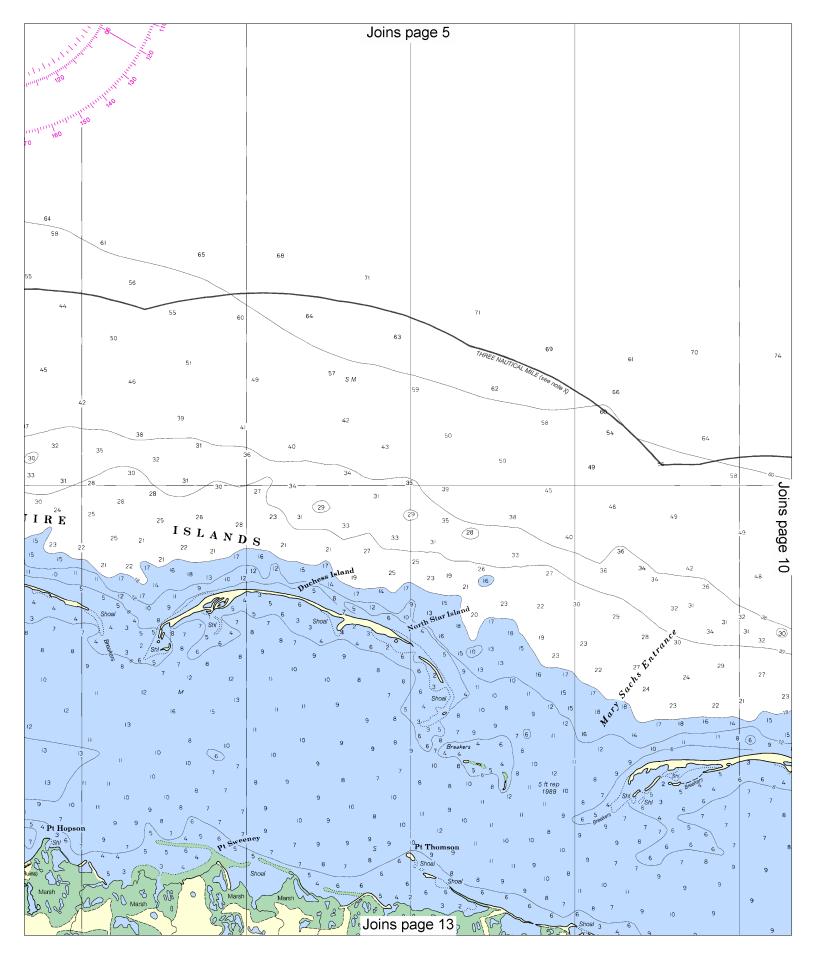


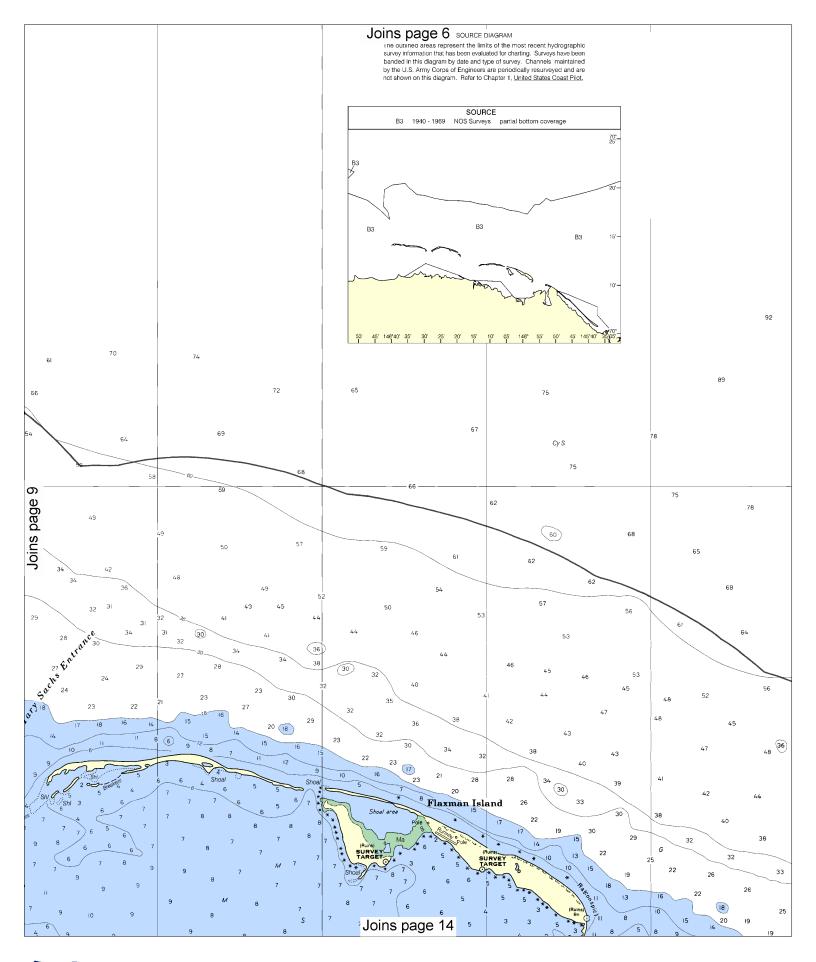




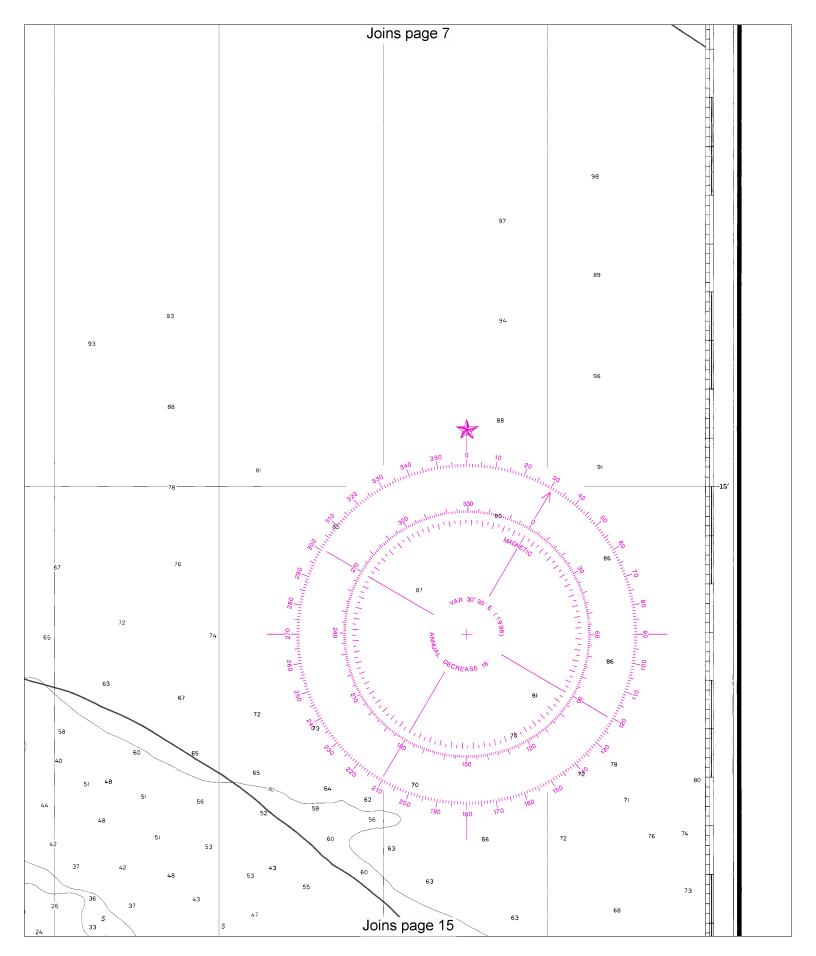


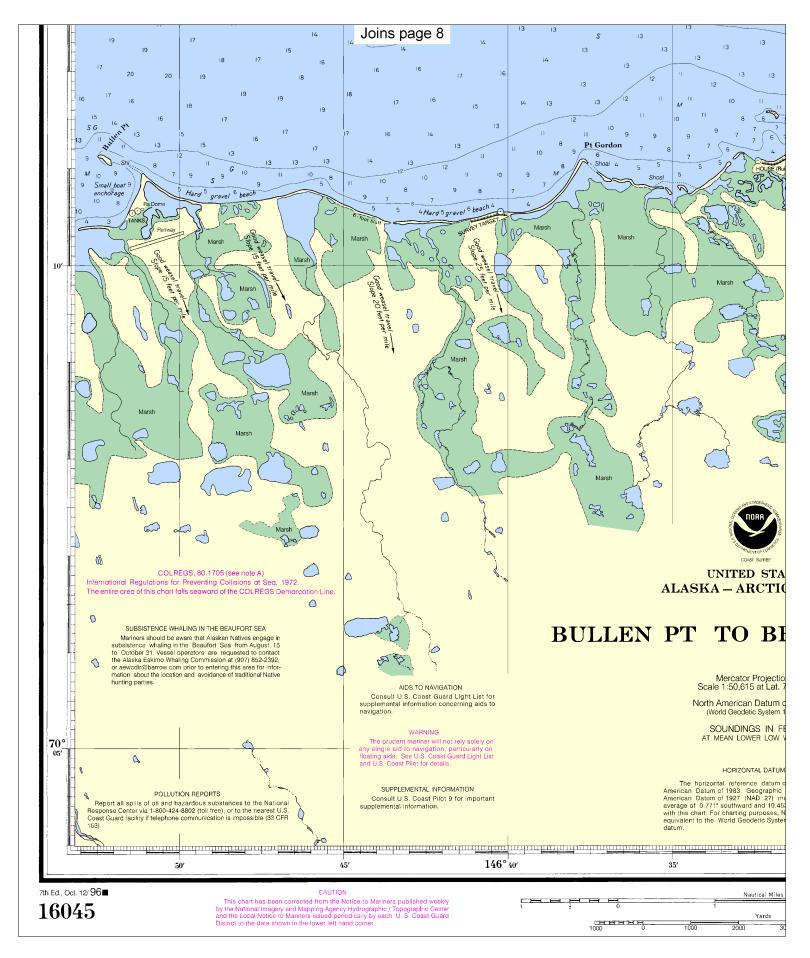




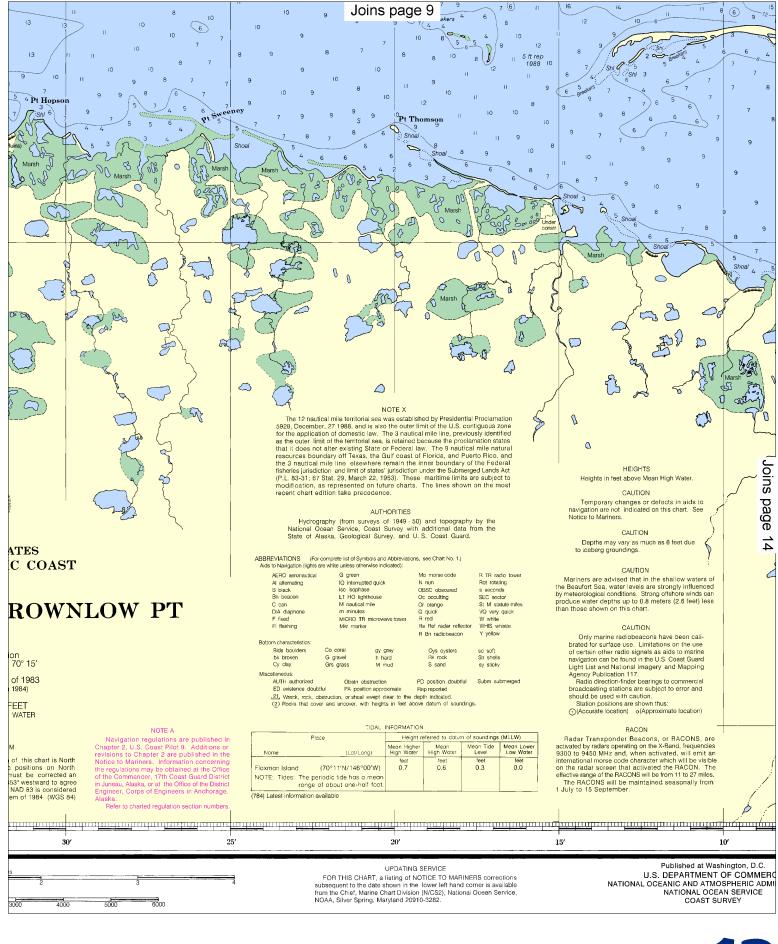


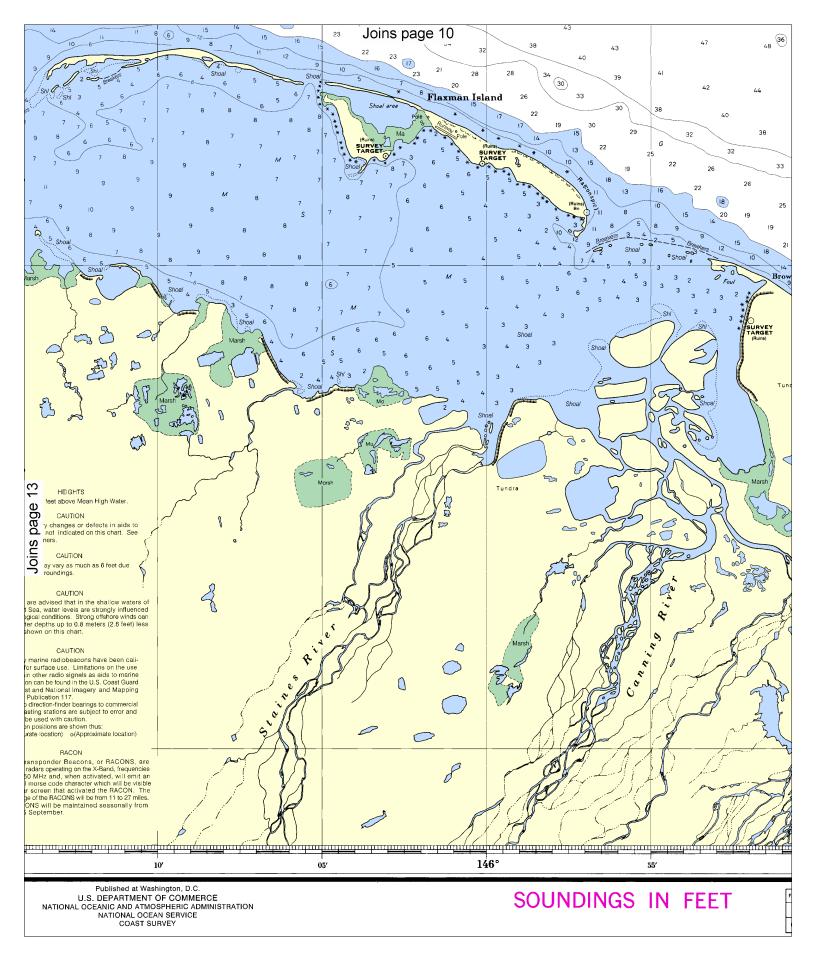
10



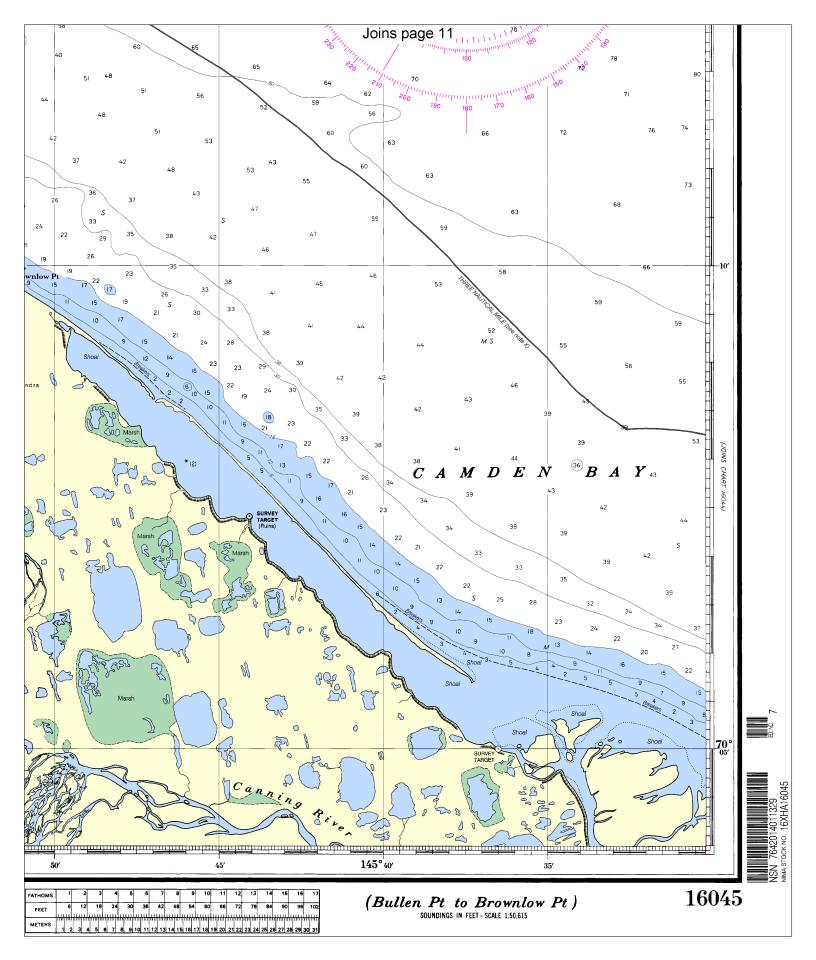


12





14





VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here. Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of

Emergency; Number of People on Board.

- · Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

http://www.nws.noaa.gov/nwr/

Quick References

Nautical chart related products and information — http://www.nauticalcharts.noaa.gov

Online chart viewer — http://www.nauticalcharts.noaa.gov/mcd/NOAAChartViewer.html

Report a chart discrepancy — http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx

Chart and chart related inquiries and comments — http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs

Chart updates (LNM and NM corrections) — http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html

Coast Pilot online — http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm

Tides and Currents — http://tidesandcurrents.noaa.gov

Marine Forecasts — http://www.nws.noaa.gov/om/marine/home.htm

National Data Buoy Center — http://www.ndbc.noaa.gov/

NowCoast web portal for coastal conditions — http://www.nowcoast.noaa.gov/

National Weather Service — http://www.weather.gov/

National Hurrican Center — http://www.nhc.noaa.gov/

Pacific Tsunami Warning Center — http://ptwc.weather.gov/

Contact Us — http://www.nauticalcharts.noaa.gov/staff/contact.htm



For the latest news from Coast Survey, follow @nauticalcharts



This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.

